

## G2-LAURA-D-P

~13° diffused spot beam. Assembly with thinner white holder, installation tape and location pins.

### SPECIFICATION:

Dimensions	21.6 x 21.6 mm
Height	13.1 mm
Fastening	tape, pin
ROHS compliant	yes ⓘ

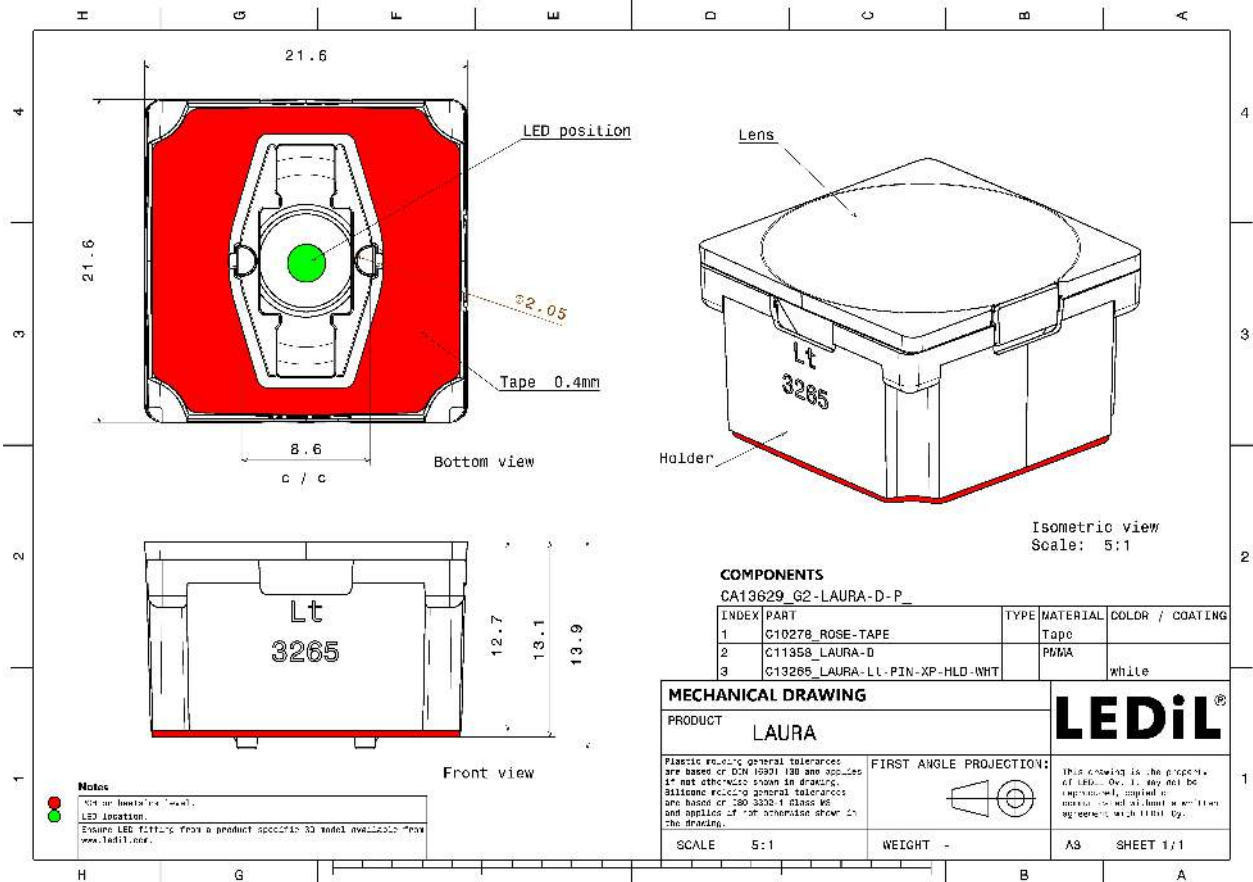
### MATERIALS:

Component	Type	Material	Colour	Finish
LAURA-D	Single lens	PMMA	clear	
LAURA-LT-PIN-XP-HLD-WHT	Holder	PC	white	
ROSE-TAPE	Tape	Acrylic foam	black	

### ORDERING INFORMATION:

Component	Type	Qty in box	MOQ	MPQ	Box weight (kg)
CA13629_G2-LAURA-D-P	Single lens	1440	360	180	5.9
» Box size: 451 x 254 x 152 mm					



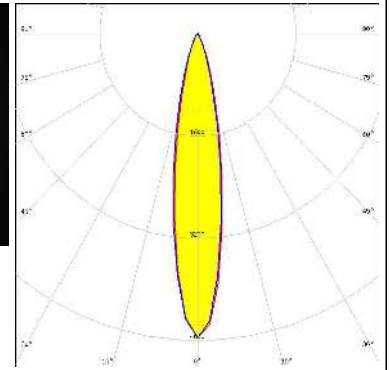
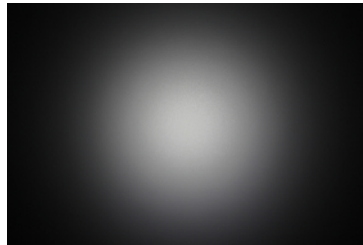


See also our general installation guide: [www.ledil.com/installation\\_guide](http://www.ledil.com/installation_guide)

#### OPTICAL RESULTS (MEASURED):

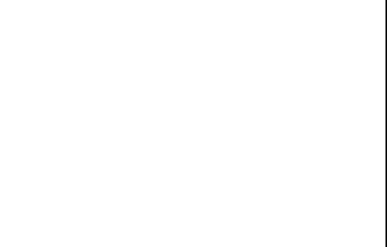
##### CREE LED

LED XB-H  
 FWHM / FWTM 19.0° / 41.0°  
 Efficiency 83 %  
 Peak intensity 4.8 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



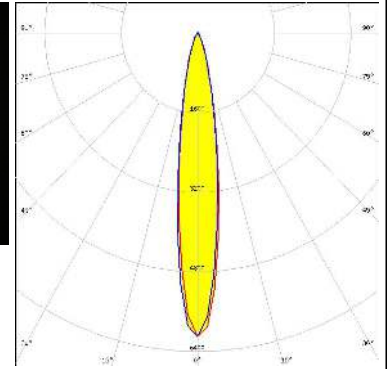
##### CREE LED

LED XP-E  
 FWHM / FWTM 13.0° / 31.0°  
 Efficiency 93 %  
 Peak intensity 9.3 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



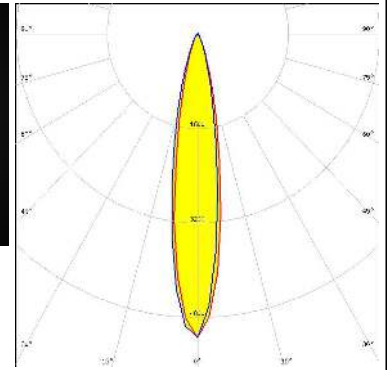
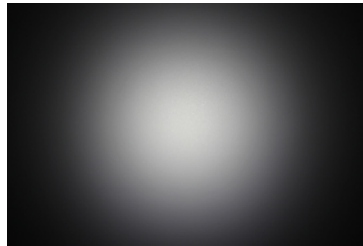
##### CREE LED

LED XP-E2  
 FWHM / FWTM 16.0° / 37.0°  
 Efficiency 83 %  
 Peak intensity 6.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:


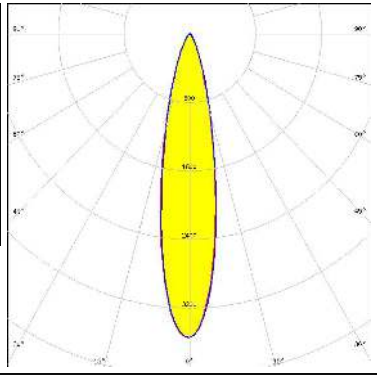
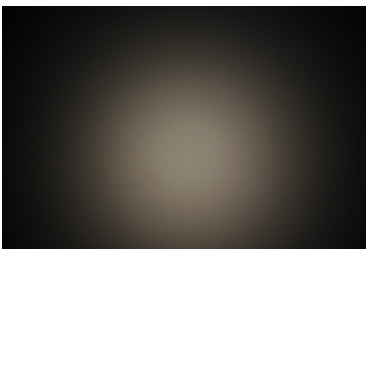
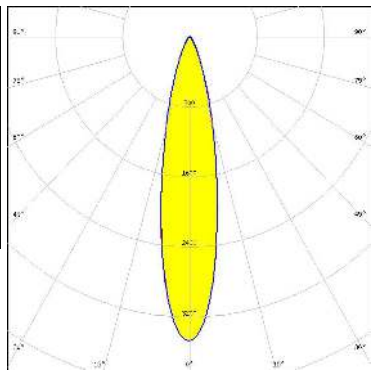

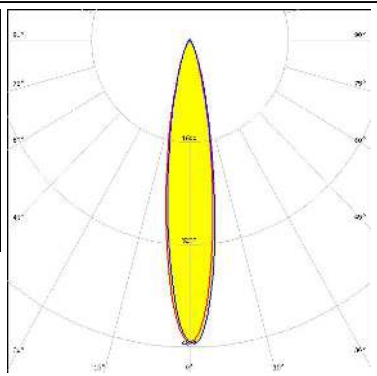

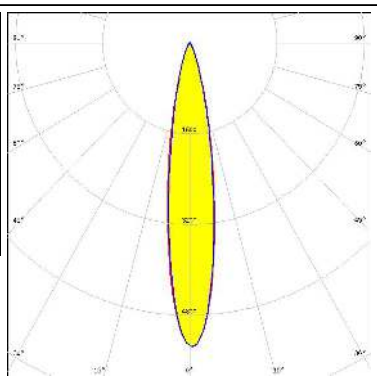


##### CREE LED


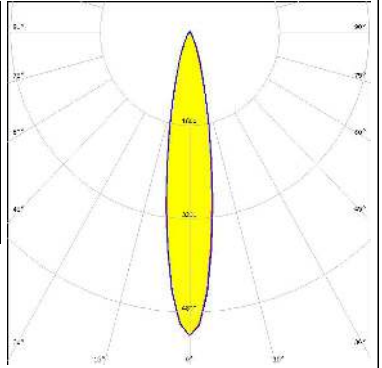

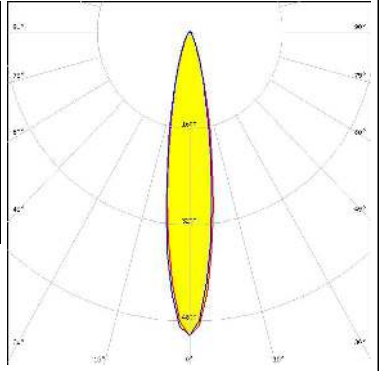

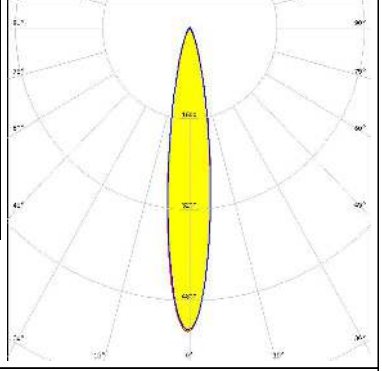

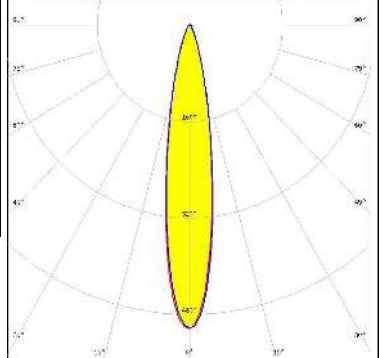
LED XP-G2  
 FWHM / FWTM 19.0° / 40.0°  
 Efficiency 83 %  
 Peak intensity 5.1 cd/m  
 LEDs/each optic 1  
 Light colour White  
 Required components:



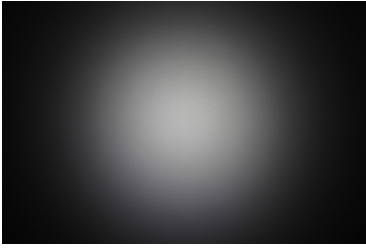
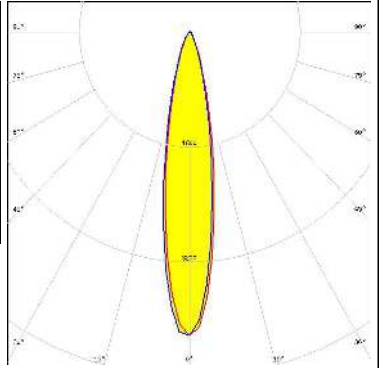
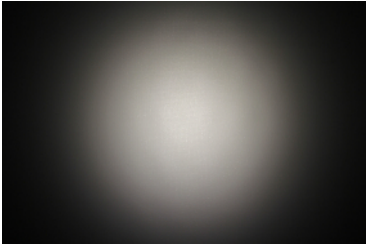

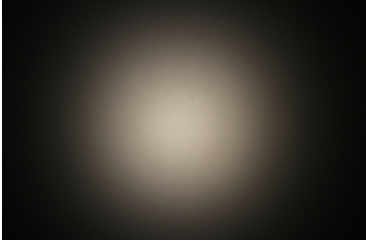
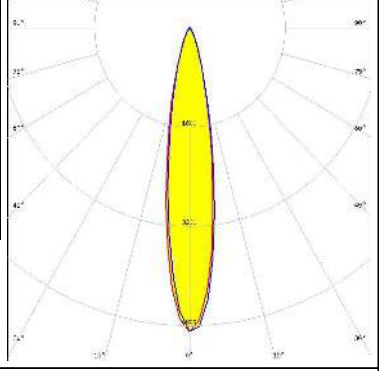

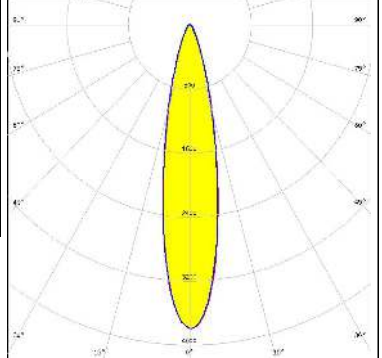
#### OPTICAL RESULTS (MEASURED):

<p><b>CREE</b> → <b>LED</b></p> <p>LED XP-L HD            FWHM / FWTM 21.0° / 45.0°            Efficiency 81 %            Peak intensity 3.6 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> → <b>LED</b></p> <p>LED XP-L2            FWHM / FWTM 22.0° / 48.0°            Efficiency 84 %            Peak intensity 3.5 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>CREE</b> → <b>LED</b></p> <p>LED XT-E            FWHM / FWTM 19.0° / 41.0°            Efficiency 82 %            Peak intensity 4.7 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>LUMILEDS</b></p> <p>LED LUXEON 3030 2D (Round LES)            FWHM / FWTM 18.0° / 38.0°            Efficiency 87 %            Peak intensity 5.4 cd/m            LEDs/each optic 1            Light colour White            Required components:</p>		

#### OPTICAL RESULTS (MEASURED):



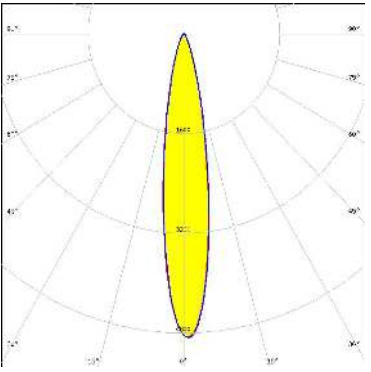


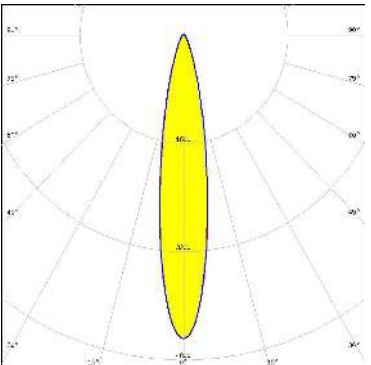
<p><b>LUMILEDS</b></p> <p>LED LUXEON TX            FWHM / FWTM 18.0° / 40.0°            Efficiency 86 %            Peak intensity 5.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NCSxx19A            FWHM / FWTM 19.0° / 41.0°            Efficiency 87 %            Peak intensity 5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NCSxx19B            FWHM / FWTM 17.0° / 38.0°            Efficiency 83 %            Peak intensity 5.4 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSW219D            FWHM / FWTM 18.0° / 40.0°            Efficiency 94 %            Peak intensity 5 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		

#### OPTICAL RESULTS (MEASURED):

<p><b>NICHIA</b></p> <p>LED NVSxx19A            FWHM / FWTM 20.0° / 43.0°            Efficiency 81 %            Peak intensity 4.2 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>NICHIA</b></p> <p>LED NVSxx19B/NVSxx19C            FWHM / FWTM 19.0° / 42.0°            Efficiency 83 %            Peak intensity 4.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>OSRAM</b>  <small>Opto Semiconductors</small></p> <p>LED OSLOM Square EC            FWHM / FWTM 19.0° / 40.0°            Efficiency 82 %            Peak intensity 4.9 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		
<p><b>SAMSUNG</b></p> <p>LED LH351D            FWHM / FWTM 21.0° / 46.0°            Efficiency 93 %            Peak intensity 3.8 cd/lm            LEDs/each optic 1            Light colour White            Required components:</p>		



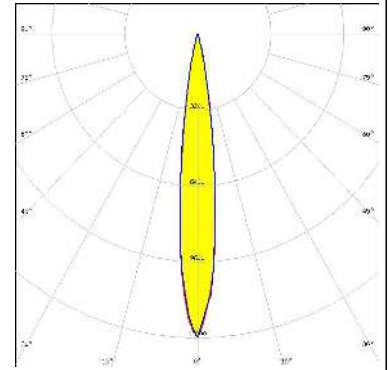
## OPTICAL RESULTS (MEASURED):

<p> SEOUL SEMICONDUCTOR</p> <p>LED Z5M1/Z5M2</p> <p>FWHM / FWTM 18.0° / 39.0°</p> <p>Efficiency 83 %</p> <p>Peak intensity 4.9 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		
<p> SEOUL SEMICONDUCTOR</p> <p>LED Z5M3</p> <p>FWHM / FWTM 19.0° / 42.0°</p> <p>Efficiency 93 %</p> <p>Peak intensity 4.5 cd/m</p> <p>LEDs/each optic 1</p> <p>Light colour White</p> <p>Required components:</p>		

#### OPTICAL RESULTS (SIMULATED):

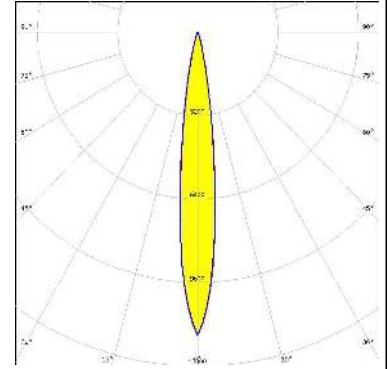
##### CREE → LED

LED XHP35 HI  
 FWHM / FWTM 14.0° / 26.0°  
 Efficiency 94 %  
 Peak intensity 12.8 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



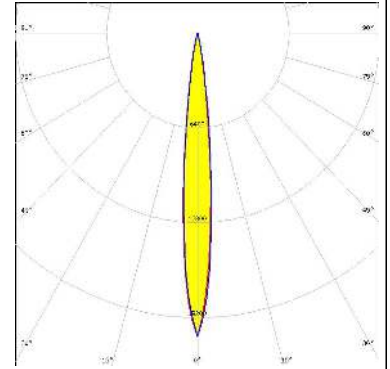
##### CREE → LED

LED XP-G3  
 FWHM / FWTM 14.0° / 28.0°  
 Efficiency 93 %  
 Peak intensity 11.6 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



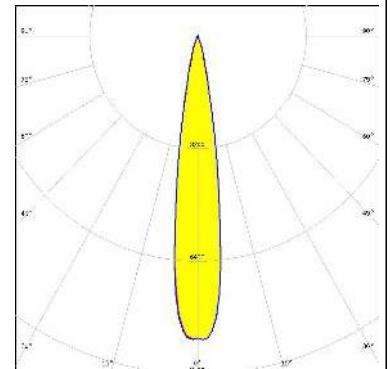
##### CREE → LED

LED XQ-E HD  
 FWHM / FWTM 10.8° / 21.2°  
 Efficiency 94 %  
 Peak intensity 20.5 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:



##### NICHIA

LED NS9x383  
 FWHM / FWTM 16.0° / 30.0°  
 Efficiency 94 %  
 Peak intensity 8.7 cd/lm  
 LEDs/each optic 1  
 Light colour White  
 Required components:

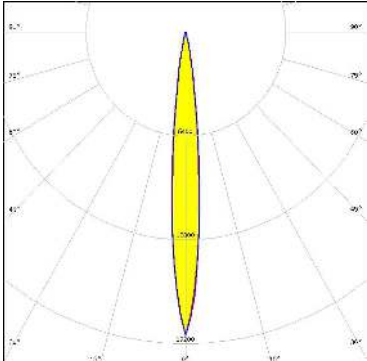
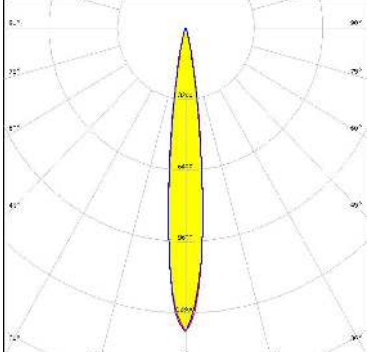




#### OPTICAL RESULTS (SIMULATED):

<b>OSRAM</b> <small>Opto Semiconductors</small>	<p>LED: KW CULPM1.TG</p> <p>FWHM / FWTM: 10.0° / 20.0°</p> <p>Efficiency: 96 %</p> <p>Peak intensity: 21.8 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>		
<b>OSRAM</b> <small>Opto Semiconductors</small>	<p>LED: OSLO Signal</p> <p>FWHM / FWTM: 10.0° / 20.0°</p> <p>Efficiency: 95 %</p> <p>Peak intensity: 24.2 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: Red</p> <p>Required components:</p>		
<b>OSRAM</b> <small>Opto Semiconductors</small>	<p>LED: OSLO Square CSSRM2/CSSRM3</p> <p>FWHM / FWTM: 12.0° / 25.0°</p> <p>Efficiency: 96 %</p> <p>Peak intensity: 14.5 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>		
<b>OSRAM</b> <small>Opto Semiconductors</small>	<p>LED: OSLO Square Flat</p> <p>FWHM / FWTM: 9.0° / 19.0°</p> <p>Efficiency: 94 %</p> <p>Peak intensity: 26.1 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>		

#### OPTICAL RESULTS (SIMULATED):

<p><b>OSRAM</b> Opto Semiconductors</p> <p>LED: OSOLON SSL 80</p> <p>FWHM / FWTM: 10.0° / 22.0°</p> <p>Efficiency: 95 %</p> <p>Peak intensity: 18.7 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	
<p><b>SEOUL SEMICONDUCTOR</b></p> <p>LED: Z8Y22P</p> <p>FWHM / FWTM: 13.0° / 25.0°</p> <p>Efficiency: 97 %</p> <p>Peak intensity: 13.6 cd/lm</p> <p>LEDs/each optic: 1</p> <p>Light colour: White</p> <p>Required components:</p>	

### GENERAL INFORMATION:

NOTE: The typical beam angle will be changed by different color, chip size and chip position tolerance. The typical total beam angle is the full angle measured where the luminous intensity is half of the peak value.

### MATERIALS:

As part of our continuous research and improvement processes, and to ensure the best possible quality and availability of our products, LEDiL reserves the right to change material grades without notice.

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